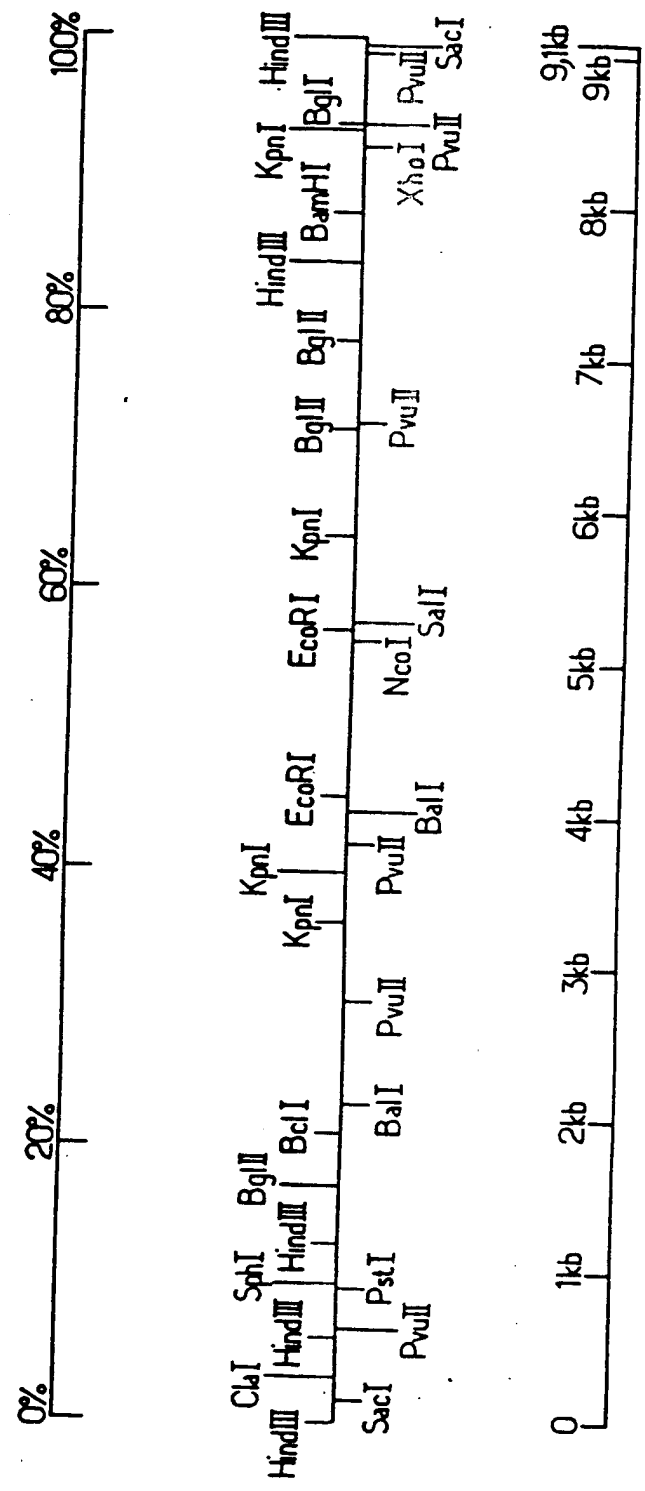
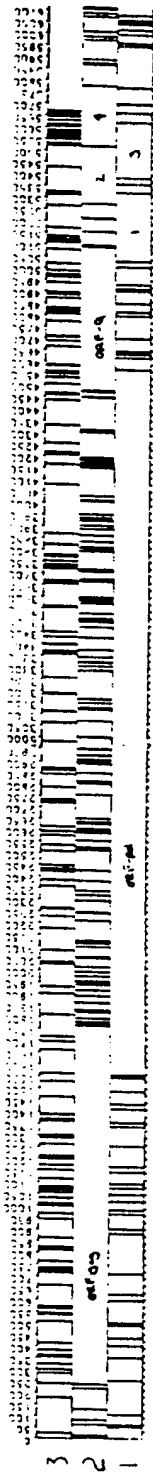


FIG.1.



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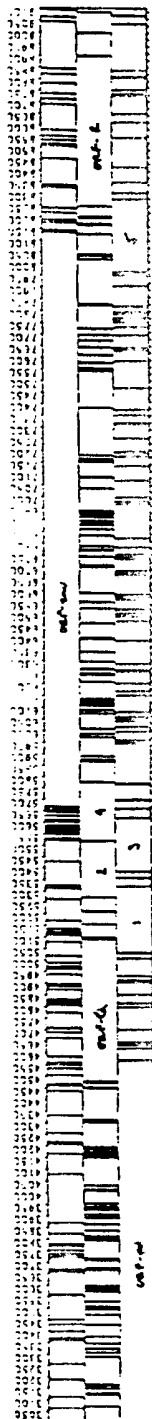


Fig. 3

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Q A F H L K T A V Q " A V F I H H F K M K C C I C G V S A C E R I V D I I A I O

[illegible]

I Q T K E L O K Q I T K I O N F Q V Y I R D S R D P L F C K G P A K L L W K G E G  
 Y K L K N Y K N K L O K M P Y C F I Y C I T A E R I N F C K D O S S C G N V K G  
 I N Q R I T K N Y A M S K F S G L L Q C G O R S T L E R I T S K A P L E R A R G  
 A T A A A C T A E G A A T T A C A A A A C A A A T T T A C C G A C A G A C A G A T C C T T G G A A G C C A G A A A G C T C T C T G A A G C G A A G G  
 4310 4320 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440

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 : P N M L S I S K T P Y V C I R I S G W L P T S L O K P S S K U S F R S T H  
 I Q T A S L V K H M V S K A L N S L P M N Y L P P A I S E V T H  
 L H G M J P I T C M F O G K L D C F I D I T W A L L T C E U W Y T S  
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 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680

P L O G C A P I G U N W I L C S A Y N R K Q T L A S C S C S L M W M F K F I O H M  
 P L G D A P L V I T T Y C L M C I K P V D N C L C G V S I N F M F P K F I O H M  
 H O C L J L W V U H I G V C L M C I K P V D N C L C G V S I N F M F P K F I O H M  
 C C C A C T A G G C G C T A G A T T C G G C T C C A C A A G A C T C G C T C C A G G A C T C C A T T C G G A A A C A T A T A G C C A C A  
 A G W 4710 4711 4712 4713 4714 4715 4716 4717 4718 4719 4800

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U O N R A M G A S P O I M A T A S M I S A M C L A M I I A V A F F S I

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Fig 6

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V \* G E U E \* E P V U P R L E P W K H P G S O P  
T F E S K W S U \* I L D \* S P G S I O E V S L  
CAACAGAGGAGAGCAAGAAATGCAUCCAGTAGATCTAGACTAGAGCCCTGGAAGCATCCAGGAAGTCAGCCTA  
5290 5300 5310 5320 5330 5340 5350

P S L F H N K S L R H L L W O E E A E T A T K T S  
Q V C F T T K A L G I S Y G R K K R R R R R P P  
K F V S O O K P \* A S P M A G R S G D S D E D L  
CCAAGTTTGTTCACAACAAAAGCCTTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGAGCAAGACCTC  
5410 5420 5430 5440 5450 5460 5470

S T C N A T Y T N S N S S I S S S N N N S N S C V  
V H V M O P I U I A I A L V V A I I I A I V V  
Y \* C N L Y K \* J \* G H \* \* O \* \* O \* L C  
AGTACATGTAATGCAACCTATACAAATAGCAATAGCAGCATTAGTAGCAATAATAATAGCAATAGTTGTGTG  
5530 5540 5550 5560 5570 5580 5590

I \* U V N \* \* T N R K S R R O W O \* E \* R R N I S  
I D K L I O R L I E R A E D S G N E S E G E I S A  
\* T G \* L I D \* \* K E O K T V A M R V K E K Y J  
AATAGACAGGTTAATTGATGACTAATAGAAAGAGCAGAAGACAGTGGCAATGAGAGTGAAGGAGAAATATCAGC  
5650 5660 5670 5680 5690 5700 5710

Y \* \* S V V L O K N C G S O S I M G Y L C G P K O  
I D D L \* C Y R K I V G H S L L W G T C V E G S N  
L M I C S A T E K L W V T V Y Y G V P V H K E A  
TATTGATGATCTGTAGTGCTACAGAAAAATTGTGGGTACAGTCTATTATGGGGTACCTGTGTGGGAAGCA  
5770 5780 5790 5800 5810 5820 5830

R Y I \* E G P H M P V Y P U T P T H K K \* Y \* \*  
G T \* C L G H T C L C T H R P O P T \* S S I G V  
V H N V W A T H A C V P T O P N P O E V V L V  
AGGTACATAATGTTGGGCCACATGCGTGTACCCACAGACCCCAACCCACAAGAAGTAGTATTGGTAAATG  
5870 5900 5910 5920 5930 5940 5950

C M R I \* S V Y G I K A \* S H V \* N \* P H S V L V  
A \* G Y N U F M G S K P K A M C K I N P T L C \* F  
H E D I I S L W D O S L K P C V K L T P L C V S  
TGCATGAGGATAGAAATCAGTTTATGGGATCAAAAGCCTAAAGCCATGTCTAAAATTAACCCCACTCTGTGTTAGT  
6010 6020 6030 6040 6050 6060 6070

P I V V A G K \* \* W R K E K \* K T A L S I S A O  
Y Q \* \* \* G N D D G E R R O K K I L F O Y O H K  
T N S S S G E M M E K G E I K H C S F V I S T  
ATACCAATAGTAGTACCGGGGAAATGATGATGGAGAAAGGAGAGATAAAAAACTGCTCTTTCAATATCAGCACA  
6130 6140 6150 6160 6170 6180 6190

L I \* Y Q \* I M I L P A I R \* U V V T P O S L H R  
\* Y N T H R \* \* Y Y O L Y V O K L \* H L S H Y T O  
U I I P I O V D T T S Y T L T S C N T S V I T O  
TGCATATAATACCAATAGATAATGATACTACCAGCTATACGTTACAAAGTTGTAACACCTCAGTCATTACAGG  
6250 6260 6270 6280 6290 6300 6310

P \* L V L V F \* N V I I R \* S \* E O D H V O M S A

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P G S O P K T A C T T C Y C K K C C F H C  
Q E V S L K L L V P L A I V K S V A F I A  
AGGAAGTCAGCCTAAACTGCTTGTAACACTTGCTATTGTAAAAAGTTGCTTTTCATTG  
5350 5360 5370 5380 5390 5400

A T K T S S P O S D S S S F S I K A V S  
J R R R P P Q G S G T H C V S L S K O \* V  
S D E D L L K A V R L I K F L Y O S S K \*  
AGCGACGAAGACCTCCTCAAGGCAGTCAGACTCATCAAGTTTCTCTATCAAAGCAGTAAGT  
5470 5480 5490 5500 5510 5520

S N S C V V H S N H R I \* E N I K T K K  
I A I V V W S I V I I E Y R K I L R O R K  
\* \* O \* L C G P \* \* S \* N I G K Y \* O K E K  
TAGCAATAGTTGTGTGGTCCATAGTAATCATACAATATAGGAAAATATTAAGACAAAGAAA  
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R R N I S T C G D G G G N G A P C S L G  
G E I S A L V E N G V E M G H H A P W O  
K E K Y Q H L W R W G W K W G T M L L G I  
AGGAGAAATATCAGCACTTGTGGAGATGGGGCTGGAAATGGGGCACCATGCTCCTTGGGA  
5710 5720 5730 5740 5750 5760

C G F K O P P L Y F V H O M L K H M I O  
V E G S N H H S I L C I O C \* S I \* Y R  
V W K E A T T T L F C A S D A K A Y D T E  
TGTGGAAGGAAGCAACCACCACTCTATTTTGTGCATCAGATGCTAAAGCATATGATACAG  
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\* Y \* \* M \* O K I L T C G K M T W \* N R  
S I G K C D R K F \* H V E K \* H G R T D  
V V L V N V T E N F N M \* K N O M V E O M  
TAGTATTGTAATGTGACAGGAAAAATTTAATCATGTGGAATAATGACATGGTAGAACAGA  
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H S V L V \* S A L T W G \* L L T P I V V  
T L C \* F K V H \* F G E C Y \* Y O \* \*  
\* L C V S L K C T D L G N A T N T N S S N  
CACCTGTGTAGTTTAAAGTGCACCTGATTTGGCGATGCTACTAATACCAATAGTAGTA  
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S H S A O A \* E V R C O K N M H F F I N  
O Y Q H K H K R \* G A E R I C I F L \* T  
= N H I S T S I R G K V C K E Y A F F Y K L  
TCAATATCAGCACAAGCATAAGAGGTAAGGTCCAGAGCAATATGCATTTTTTATAAAC  
6170 6200 6210 6220 6230 6240

O S L H R P V Q R Y P L S O F P Y I I V  
S H Y T G L S K G I L \* A N S H T L L C  
5) V I T O A C P K V S F E P I P I H Y C A  
CAGTCATTACACAGGCTGTCCAAAGGTATCCTTTGAGCCAATTCCCATACATTATTGTC  
6310 6320 6330 6340 6350 6360

V O \* S A O Y N V H \* F L G C \* Y O L N

360

Fig 15

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P G W F C D S K Y \* | \* \* J V J W N R T M Y K C G  
P A G F A I L K C N N K T F N G T G P C T N V S  
CCCCGGCTGTTTTCGATTCTAAAAATCTAATAAGACGTTCAATGGAACAGGACCATGTACAAATGTCAG  
6370 6380 6390 6400 6410 6420 6430

C C \* M A V \* O K K R \* \* L D L P I S O T M L K I  
A V E N G S S S R R R G S N \* I C O F M R Q C \* N  
L L N G S L A E E E V V I R S A N E T D N A K T  
TCTGTTGAATGGCAGTCTAGCAGAAGAAGAGGTAGTAATTAGATCTGCCAATTCACAGACAATGCTAAAAC  
6490 6500 6510 6520 6530 6540 6550

P T T I G E K V S V S R G D U G E H L L O \* E K \*  
U C J Y K K K Y P Y P E G T R E S I C Y N R K N  
N N N T R K S I R I O R G G P G R A F V T I G K I  
CCAACAACAATACAAGAAAAAGTATCCGTATCCAGGGGACGAGGACGATTGTTACAAATAGGAAAAATA  
6610 6620 6630 6640 6650 6660 6670

M P L \* N R \* L A N \* E N N L E I I K O \* S L S  
C H F K T D S \* Q I K R T I K \* \* N N V L \* A  
A T L K Q I A S K L R E O F G N N K T I I F K Q  
ATGCCACTTTAAACAGATAGCTAGCAATTAAGAGAACAATTTGGAATAATAAAACAATAATCTTTAAGCAA  
6730 6740 6750 6760 6770 6780 6790

I G N F S T V I O H N C L I V L G L I V L G V L \*  
K G I F L L \* N S T T V \* \* Y L V \* \* Y L E Y \*  
G E F F Y C N S T Q L F N S T W F N S T \* S T E  
GAGGGGAATTTTCTACTGTAATTCACACAACCTGTTAATAGTACTTGGTTAATAGTACTTGGAGTACTGAA  
6850 6860 6870 6880 6890 6900 6910

E \* N N L \* T C G R K \* E K O C M P L P S A D K L  
N K T I Y K H V A G S R K S N V C P S H Q R T N  
I K O F I N M H O E V G K A M Y A P P I S G Q I  
GAATAAAACAATTTATAAACATGTGGCAGGAAGTAGGAAAAGCAATGTATGCCCTCCCATCAGCGGACAAAT  
6970 6980 6990 7000 7010 7020 7030

I T T M G P R S S D L E E E I \* G T I G E V N Y  
\* \* O O W V R D L O T W R R Y E G O L E K \* I  
N N N N G S E I F R P G G G D M R O N W R S E L  
GTAATAACAACAATGGCTCCGAGATCTTCAGACCTGGAGGAGGAGATATGAGGCACAATTGGAGAAGTGAATTA  
7090 7100 7110 7120 7130 7140 7150

P R Q R E E W C R E K K E O W E \* E L C S L G S W  
O G K E K S G A E R K K S S G N R S F V P W V L C  
K A K R R V V Q R E K R A V G I G A L F L G F L  
CCAAGCCAAGAGAAGAGTGGTGCAGAGACAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCTTGGGTTCTTGG  
7210 7220 7230 7240 7250 7260 7270

Y R P O N Y C L V \* C S S R T I C \* G L L R R N S  
T G O T I I V W Y S A A A E D F A E G Y \* G A T A  
O A R O L L S G I V O O Q N N L L R A I E A O O  
TACAGGCAGACAATTATGCTGCTATAGTGCAGCAGCAGAACAATTTGCTGAGGCTATTGAGGCCAACAGC  
7330 7340 7350 7360 7370 7380 7390

E S A L U K O T \* R I N S S W G F G V A L E N S F

Fig. 16

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R T M Y K C G H S T M Y T X N \* A S S I N S T  
G P C T M V S T V O C T H G I R O V V S T U L  
CAGGACCATGTACAAATGTCAGCACAGTACAAATGTACACATGGAATTAGGCCAGTAGTATCAACTCAAC  
6420 6430 6440 6450 6460 6470 6480

P I S O T M L K P \* \* Y S \* T V L \* K L I V U D  
H F H R O C \* N H N S T A E P I L R N \* L Y K T  
CAATTCACAGACAATGCTAAACCATAATAGTACAGCTGAACCAATCTGTAGAAATTAATTGTACAAGAC  
6540 6550 6560 6570 6580 6590 6600

F H L L Q \* E K \* E I \* D K H I V T L V F O N G  
S I C Y V P K N P K Y E T S T L \* H \* S K M E  
A F V T I G K I G N \* R O A H C H I S R A K W N  
AGCATTGTGTACATAGGAAAAATAGGAAATATGAGACAAGCACATTTGTAAACATTAGTAGAGCAAAATGGA  
6660 6670 6680 6690 6700 6710 6720

I K Q \* S L S N P O E G T O K L \* P T V L I V  
\* N \* L \* A I L R R G P R Y C N A O F \* L W  
M K T I I F K O S S G G O P E I V T H S F N C G  
TAATAAAACAATAATCTTTAAGCAATCCTCAGGAGGGGACCCAGAAATTGTAACGCACAGTTTAAATTGTC  
6780 6790 6800 6810 6820 6830 6840

L I V L G V L K G O I T L K E V T O S M S H A  
V \* Y L E Y \* R V K \* H \* R K \* H V H T P M C  
F N S T W S T E G S N V T E G S O T I T L P C R  
TTTAATAGTACTTGGAGTACTGAAGGGTCAATAACACTGAAGGAAGTGACACAATCACACTCCCATGCA  
6900 6910 6920 6930 6940 6950 6960

P L P S A D K L D V H O I L G G C Y \* O E M V  
C P S H O R T N \* M F I K Y Y R A A I N K R W W  
A P P I S G O I R C S S N I T G L L L T R D G G  
TGGCCCTCCCATCAGCGGACAAATTAGATGTCATCAAAATATTACAGGGCTGCTATTAACAAGAGATGGTG  
7020 7030 7040 7050 7060 7070 7080

G T I G E V N Y I N I K \* \* K L N H \* E \* H P  
E G O L E K \* I I \* I \* S S K N \* T I R S S T H  
R O N W R S E L Y K Y K V V K I E P L G V A P T  
CAGGGACAATTGGAGAAGTGAATTATATAAATATAAAGTAGTAAATTAACCATTAGGAGTAGCACCCA  
7140 7150 7160 7170 7180 7190 7200

E L C S L G S W E O J E A L \* A H G O \* R \* R  
R S F Y P W V L G S S R K H Y G R T V N D A D G  
G A L F L G F L G A A G S T M G A R S M T L T V  
AGGAGCTTTGTTCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGGCCACGGTCAATGACGCTGACGG  
7260 7270 7280 7290 7300 7310 7320

\* G L L R R N S I C C N S O S G A S S S S R O  
A E G Y \* G A T A S V A T H S L G H O A A P G K  
L R A I E A O O H L L O L T V W G I K O L O A R  
CTGAGGGCTATTGAGGGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCAGGCAA  
7380 7390 7400 7410 7420 7430 7440

G V A L E N S F A P L L C L G \* L V G V I N L



light

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N P C C G K I P K G S T A P G D L G L L K K I H  
I L A V E R Y L K D O U L L G I W G C S G K L I  
GAATCCTGGCTGTGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTGGGGTTGCTCTGGAAAACAT  
7450 7460 7470 7480 7490 7500 7510

M N R F G I T \* P G H S G T E K L T I T O A \* Y  
G T D L E \* H D L D G V G J R N \* Q L H K L N T  
E Q I W N N Y T W M E M D R E I N N Y T S L I H  
TGGACAGATTGGAATAACATGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACA  
7570 7580 7590 7600 7610 7620 7630

N Y \* N \* I N G O V C S I G L T \* S I G C G I \*  
I I G I R \* M G K F V E L V \* H V K L A V V Y K  
L L E L D K W A S L W N W F N I T H W L W Y I K  
AATTATTGGAATTAGATAAATGGGCAAGTTTGTGGAATTGTTTAACTAAACAAATTGGCTGTGCTATATAAA  
7690 7700 7710 7720 7730 7740 7750

L L Y F L \* \* I E L G R D I H H Y R F R P T S O  
C C T F Y S E \* S \* A G I F T I I V S D P P P N  
A V L S I V N R V R O G Y S P L S F O T H L P T  
TTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTTTCAGACCCACCTCCCAAC  
7810 7820 7830 7840 7850 7860 7870

R E T E T D P F D \* \* T D P \* H L S G T I C G A  
E R U P Q I H S I S E P I L S T Y L G R S A E P  
R D R D R S I R L V N G S L A L I W O D L R S L  
AGAGACAGAGACAGATCCATTGATTAGTGAACGGATCTTACCACTTATCTGGGACGATCTGCGGAGCCT  
7930 7940 7950 7960 7970 7980 7990

T R I V E L L G R G H E A L K Y W N L L O Y  
R G L W N F A D A G G G K P S N I G C I S Y S I  
E D C G T S G T O G V G S P O I L V E S P T V L  
ACGAGATTGTGGAACCTCTGGGACGCGAGGGGGTGGGAAGCCCTCAAAATATTGGTGGAAATCTCCTACAGTATT  
8050 8060 8070 8080 8090 8100 8110

A I A V A E G T D R V I E V V O G A C R A I R H  
P \* J \* L R G Q I G L \* K \* Y K E L V E L F A T  
H S S S \* G D R \* G Y S S T R S L \* S Y S P H  
GCCATAGCAGTACCTGAGGGGACAGATAGGGTTATAGAAGTAGTACAAGGAGCTTGTAGAGCTATTGCCACAT  
8170 8180 8190 8200 8210 8220 8230

G W Q V V K K \* C G H M A Y C K G K N E T S \* A S  
G G K W S K S S V V G W P T V R E R M R R A E P  
V A S G O K V V W L O G L L \* G K E \* O E L S O  
CGGTGGCAAGTGGTCAAAAAGTAGTGTGCTTGGATGGCTACTGTAAGGGAAAGAATGAGACGAGCTGAGCCAG  
8290 8300 8310 8320 8330 8340 8350

S N H K \* O Y S S Y O C C L C L A R S T R G G G G  
A I T S S H T A A T N A A C A W L F A D E E E E  
U S O V A I U O L P N L L Y P G \* K H K R R P S  
AGCAATCACAAGTAGCAATACAGCAGCTACCAATGCTGCTTGTGCTGGCTAGAGGCACAGAGGAGGAGGAGG  
8410 8420 8430 8440 8450 8460 8470

U G S C R S \* P L F X R K G G T G  
39  
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K T H L H H C C A L E C \* L E \* \* I S  
G K L I C T T A V P W N A S W S N K L  
TGGAAACTCATTTCACCACTGCTGTGCCTTGGAAATGCTAGTTGGAGTAATAATCTC  
7510 7520 7530 7540 7550 7560

Q A \* Y I P \* L K N R K T S K K R M N K  
K L N T F L N \* R I A K P A R K E \* T R  
S L I H S L I E E S O V O Q E K N E O E  
AAGCTTAATACATTCCTTAATTGAAGAATCGCAAAACCAGCAAGAAAGAAATGAACAAG  
7630 7640 7650 7660 7670 7680

C G I \* K Y S \* \* \* \* E A W \* V \* E \* F  
V V Y K N I H N D S R R L G R F K N S F  
W Y I K I F I M I V G G L V G L / R / I V F  
GTGGTATATAAAAAATTCATAATGATAGTAGGAGGCTTGGTAGCTTTAAGAATAGTTT  
7750 7760 7770 7780 7790 7800

T S O P R G D P T G P K E \* K K K V E  
P P P N P E G T R O A R R N R R R R W R  
H L P T P R G P D R P E G I E E E G G E  
CCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAG  
7870 7880 7890 7900 7910 7920

I C G A L C L F S Y H R L R D L L L I V  
S A E P C A S S A T T A \* E T Y S \* L \*  
L R S L V P L O L P P L E R L T L D C N  
TCTGCGGAGCCTTGTGCTCTTCAGCTACCACCGCTTGAGAGACTTACTCTTGATTGTA  
7990 8000 8010 8020 8030 8040

L O Y W S O E L K N S A V S L L N A T  
S Y S I G V R N \* R I V L L A C S M P O  
P T V L E S G T K E \* C C \* L A O C H S  
CCTACAGTATTGGAGTCAGGAATAAAGAATAGTGCTGTTAGCTTGCTCAATGCCACA  
8110 8120 8130 8140 8150 8160

I R H I P R I R O G L E R I L L \* D  
L F A T Y L E E \* D R A W K G F C Y K M  
Y S P H T \* K N K T G L G K D F A I R W  
TATTCGCCACATACCTAGAAGAATAAGACAGGCTTGGAAAGGATTTGCTATAAGAT  
8230 8240 8250 8260 8270 8280

S \* A S S R A G G S S I S R P G K T W  
R A E P A A D G V G A A S R D L E K H G  
E L S O O O \* G W E O H L E T W K M E  
AGCTGAGCCAGCAGCATGGGCTGGGAGCAGCATCTCGAGACCTGGAAAAACATGG  
8350 8360 8370 8380 8390 8400

G G G G G F S S H T S G T F K T N D L  
E E E V G F P V T P C V P L R P M T Y  
R R R R R Y F J S H L R Y L \* D O \* L T  
CGCAGGAGGAGGCGGTTTCCAGTCACCTCAGCTACCTTTAAGACCAATGACTTA  
8470 8480 8490 8500 8510 8520

L P T K T P \* S V G L P H T R L L  
15/15 B/L

Fig 19

10 20 30 40 50 60  
 AAGCTTGCCT TGAGTGCTTC AAGTAGTGTG TCCCCGTCTG TTGTGTGACT CTGGTAACTA  
 70 80 90 100 110 120  
 GAGATCCCTC AGACCCTTTT AGTCAGTGTG GAAAATCTCT AGCAGTGCCG CCCGAACAGG  
 130 140 150 160 170 180  
 GACTTGAAAG CGAAAGGGAA ACCAGAGGAG CTCTCTCGAC GCAGGACTCG GCTTGCTGAA  
 190 200 210 220 230 240  
 GCGGCGACGG CAAGAGGGCA GGGGAGGGCA CTGGTGAGTA CGCCAAAAAT TTTGACTAGC  
 250 260 270 280 290 300  
 GGAGGCTAGA AGGAGAGAGA TGGGTGCGAG AGCTCAGTA TTAAGCGGGG GAGAATTAGA  
 310 320 330 340 350 360  
 TCGATGGGAA AAAATTCTGT TAAGGCCAGG GGGAAAGAAA AAATATAAAT TAAACATAT  
 370 380 390 400 410 420  
 AGTATGGGCA AGCAGGGAGC TAGAACGATT CGCTGTAAAT CCTGGCCTGT TAGAAACAIC  
 430 440 450 460 470 480  
 AGAAGGCTGT AGACAAATAC TGGGACAGCT ACAACCATCC CTTCAGACAG GATCAGAAGA  
 490 500 510 520 530 540  
 ACTTAGATCA TTATATAATA CAGTAGCAAC CCTCTATTGT GTGCATCAAA GGATAGAGAT  
 550 560 570 580 590 600  
 AAAAGACACC AAGGAAGCTT TAGACAAGAT AGAGGAAGAG CAAAACAAAA GTAAGAAAAA  
 610 620 630 640 650 660  
 AGCACAGCAA GCAGCAGCTG ACACAGGACA CAGCAGCCAG GTCAGCCAAA ATTACCCAT  
 670 680 690 700 710 720  
 AGTGCAGAAC ATCCAGGGGC AAATGGTACA TCAGGCCATA TCACCTAGAA CTTTAAATGC  
 730 740 750 760 770 780  
 ATGGGTAAAA GTAGTAGAAG AGAAGGCTTT CAGCCCAGAA GTGATACCCA TGTTCACG  
 790 800 810 820 830 840  
 ATTATCAGAA GGAGCCACCC CACAAGATTT AAACACCATG CTAAACACAG TGGGGGGACA  
 850 860 870 880 890 900  
 TCAAGCAGCC ATGCAAAATGT TAAAAGAGAC CATCAATGAG GAAGCTGCAG AATGGGATAG  
 910 920 930 940 950 960  
 AGTGCATCCA GTGCATGCAG GGCCTATTGC ACCAGGCCAG ATGAGAGAAC CAAGGGGAAG  
 970 980 990 1000 1010 1020  
 TGACATAGCA GGAACACTA GTACCTTCA GGAACAAATA GGATGGATGA CAAATAATCC  
 1030 1040 1050 1060 1070 1080  
 ACCTATCCCA GTAGGAGAAA TTTATAAAG ATGGATAATC CTGGGATTAA ATAAAAATAGT  
 1090 1100 1110 1120 1130 1140

AAATGTAT AGCCCTACCA GCATTCTGGA CATAAGACAA GGACCAAAAG AACCCTTTAG  
 1150 1160 1170 1180 1190 1200  
 AGACTATGTA GACCGGTTCT ATAAAACTCT AAGAGCCGAG CAAGCTTCAC AGGAGGTAAA  
 1210 1220 1230 1240 1250 1260  
 AAATTGGATG ACAGAAACCT TGTGGTCCA AAATGGAAC CCAGATTGTA AGACTATTTT  
 1270 1280 1290 1300 1310 1320  
 AAAAGCATTG GGACCAGCAG CTACACTAGA AGAAATGATG ACAGCATGTC AGGGAGTGGG  
 1330 1340 1350 1360 1370 1380  
 AGGACCCGGC CATAAGGCAA GAGTTTGGC TGAAGCAATG AGCCAAGTAA CAAATTCAGC  
 1390 1400 1410 1420 1430 1440  
 TACCATAATG ATGCAAAGAG GCAATTTTAG GAACCAAGA AAGATTGTTA AGTGTTCAC  
 1450 1460 1470 1480 1490 1500  
 TTGTGGCAAA GAAGGGCACA TAGCCAGAAA TTGGCAGGCC CCTAGGAAAA AGGGCTGTTG  
 1510 1520 1530 1540 1550 1560  
 GAAATGTGGA AAGGAAGGAC ACCAAATGAA AGATTGTACT GAGAGACAGG CTAATTTTTT  
 1570 1580 1590 1600 1610 1620  
 AGGGAAGATC TGGCCTTCCT ACAAGGGAAG GCCAGGGAAT TTTCTTCAGA GCAGACCAGA  
 1630 1640 1650 1660 1670 1680  
 GCCAACAGCC CCACCAGAAG AGAGCTTCAG GTCTGGGGTA GAGACAAACA CTCCTCTCA  
 1690 1700 1710 1720 1730 1740  
 GAAGCAGGAG CCGATAGACA AGGAACGTGA TCCTTTAACT TCCCTCAGAT CACTCTTTGG  
 1750 1760 1770 1780 1790 1800  
 CAACGACCCC TCGTCACAAT AAAGATAGGG GGGCAACTAA AGGAAGCTCT ATTAGATACA  
 1810 1820 1830 1840 1850 1860  
 GGAGCAGATG ATACAGTATT AGAAGAAATG AGTTTGCCAG GAAGATGGAA ACCAAAAATG  
 1870 1880 1890 1900 1910 1920  
 ATAGGGGGAA TTGGAGGTTT TATCAAAAGTA AGACAGTATG ATCAGATACT CATAGAAATC  
 1930 1940 1950 1960 1970 1980  
 TGTGGACATA AAGCTATAGG TACAGTATTA GTAGGACCTA CACCTGTCAA CATAATTGGA  
 1990 2000 2010 2020 2030 2040  
 AGAAATCTGT TGAATCAGAT TGGTTGCACT TTAATTTTC CCATTAGTCC TATTGAAACT  
 2050 2060 2070 2080 2090 2100  
 GTACCACTAA AATTAAAGCC AGGAATGGAT GGCCCAAAAG TTAAACAATG GCCATTGACA  
 2110 2120 2130 2140 2150 2160  
 GAAGAAAAAA TAAAAGCATT AGTAGAAATT TGTACAGAAA TGGAAAAGGA AGGGAAAAAT  
 2170 2180 2190 2200 2210 2220  
 TCAAAAATTG GGCCTGAAAA TCCATACAAT ACTCCAGTAT TTGCCATAAA GAAAAAAGAC  
 2230 2240 2250 2260 2270 2280  
 AGTACTAAAT GGAGAAAATT AGTAGATTC AGAGAACTTA ATAAGAGAAC TCAAGACTTC  
 2290 2300 2310 2320 2330 2340  
 TGGGAAGTTC AATTAGGAAT ACCACATCCC GCAGGGTTAA AAAAGAAAAA ATCAGTAACA  
 2350 2360 2370 2380 2390 2400

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GACGCGATTC TGGGTGATGC ATATTTTTC A GTTCCCTTAG ATGAAGACTT CAGGAAGTAT

Fig 21

2410	2420	2430	2440	2450	2460
ACTGCATTTA	CCATACCTAG	TATAAACAA	TATATAACCA	GAGACACCAG	GGATTAGATA
2470	2480	2490	2500	2510	2520
GTGCTTCCAC	AGGGATGGAA	AGGATCACCA	GCAATATTCC	AAAGTAGCAT	GACAAAAATC
2530	2540	2550	2560	2570	2580
TTAGAGCCTT	TTAGAAAAA	AAATCCAGAC	ATAGTTATCT	ATCAATACAT	GGATGATTTC
2590	2600	2610	2620	2630	2640
TATGTAGGAT	CTGACTTAGA	AATAGGGCAG	CATAGAAACA	AAATAGAGGA	GCTGAGACAA
2650	2660	2670	2680	2690	2700
CATCTGTTGA	GGTGGGGACT	TACCACACCA	GACAAAAAAC	ATCAGAAAGA	ACCTCCATTC
2710	2720	2730	2740	2750	2760
CTTTGGATGG	GTTATGAACT	CCATCCTGAT	AAATGGACAG	TACAGCCTAT	AGTGCTGCCA
2770	2780	2790	2800	2810	2820
GAAAAAGACA	GCTGGACTGT	CAATGACATA	CAGAAGTTAG	TGGGAAAATT	GAATTGGGCA
2830	2840	2850	2860	2870	2880
AGTCAGATTT	ACCCAGGGAT	TAAAGTAAGG	CAATTATGTA	AACTCCTTAG	AGGAACCAAA
2890	2900	2910	2920	2930	2940
GCACTAACAC	AAGTAATACC	ACTAACAGAA	GAAGCAGAGC	TAGAACTGGC	AGAAAAACAG
2950	2960	2970	2980	2990	3000
GACATTCTAA	AAGAACCAGT	ACATGGAGTG	TATTATGACC	CATCAAAAGA	CTTAATAGCA
3010	3020	3030	3040	3050	3060
GAAATACAGA	AGCAGGGGCA	AGGCCAATGG	ACATATCAAA	TTTATCAAGA	GCCATTTAAA
3070	3080	3090	3100	3110	3120
AATCTGAAAA	CAGGAAAAA	TGCAAGAACG	AGGGGTGCCC	ACACTAATGA	TGTAAAACAA
3130	3140	3150	3160	3170	3180
TTAACAGAGG	CAGTGCAAAA	AATAACCACA	GAAAGCATAG	TAATATGGGG	AAAGACTCCT
3190	3200	3210	3220	3230	3240
AAATTTAAAC	TACCCATACA	AAAGGAAACA	TGGGAAACAT	GGTGGACAGA	GTATTGGCAA
3250	3260	3270	3280	3290	3300
GCCACCTGGA	TTCTTGAGTG	GGAGTTTGTC	AATACCCCTC	CTTTAGTGAA	ATTATGGTAC
3310	3320	3330	3340	3350	3360
CAGTTAGAGA	AAGAACCCAT	AGTAGGAGCA	GAAACGTTCT	ATGTAGATGG	GGCAGCTAGC
3370	3380	3390	3400	3410	3420
AGGGAGACTA	AATTAGCAAA	AGCAGGATAT	GTTACTAATA	GAGGAAGACA	AAAAGTTGTC
3430	3440	3450	3460	3470	3480
ACCCTAACTC	ACACAACAAA	TCAGAAGACT	GAGTTACAAG	CAATTCATCT	AGCTTTGCAG
3490	3500	3510	3520	3530	3540
GATTCGGGAT	TAGAAGTAAA	TATAGTAACA	GACTCACAAT	ATGCATTAGG	AATCATTCAA
3550	3560	3570	3580	3590	3600
GCACAACCAG	ATAAAAGTGA	ATCAGAGTTA	GTCAATCAAA	TAATAGAGCA	GTTAATAAAA
3610	3620	3630	3640	3650	3660

43

3670 3680 3690 3700 3710 3720  
 GTAGATAAAT TAGTCAGTGG TGGAAATCAGG AAAGTACTAT TTTTAGATGG AATAGATAAG  
 3730 3740 3750 3760 3770 3780  
 GCGCAAGATG AACATGAGAA ATATCACAGT AATTGGAGAG CAATGGCTAG TGATTTTAAC  
 3790 3800 3810 3820 3830 3840  
 CTGCCACCTG TAGTAGCAAA AGAAATAGTA GCCAGCTGTG ATAAATGTCA GCTAAAAGGA  
 3850 3860 3870 3880 3890 3900  
 GAAGCCATGC ATGGACAAGT AGACTGTAGT CCAGGAATAT GGCAACTAGA TTGTACACAT  
 3910 3920 3930 3940 3950 3960  
 TTAGAAGGAA AAGTTATCCT GGTAGCAGTT CATGTAGCCA GTGGATATAT AGAAGCAGAA  
 3970 3980 3990 4000 4010 4020  
 GTTATTCCAG CAGAAACAGG GCAGGAAACA GCATACTTTC TTTTAAATTT AGCAGGAAGA  
 4030 4040 4050 4060 4070 4080  
 TGGCCAGTAA AAACAATACA TACAGACAAT GGCAGCAATT TCACCAGTAC TACGGTTAAG  
 4090 4100 4110 4120 4130 4140  
 GCGGCTGTT GGTGGGGGGG AATCAAGCAG GAATTTGGAA TTCCCTACAA TCCCCAAGT  
 4150 4160 4170 4180 4190 4200  
 CAAGGAGTAG TAGAATCTAT GAATAAAGAA TTAAGAAAAA TTATAGGCCA GGTAAAGAT  
 4210 4220 4230 4240 4250 4260  
 CAGGCTGAAC ATCTTAAGAC AGCAGTACAA ATGGCAGTAT TCATCCACAA TTTTAAAGA  
 4270 4280 4290 4300 4310 4320  
 AAAGGGGGGA TTGGGGGGTA CAGTGCAGGG GAAAGAATAG TAGACATAAT AGCAACAGAC  
 4330 4340 4350 4360 4370 4380  
 ATACAACTA AAGAATTACA AAAACAAATT ACAAAAAATC AAAATTTTCG GGTATTATTAC  
 4390 4400 4410 4420 4430 4440  
 AGGGACAGCA GAGATCCACT TTGGAAGGA CCAGCAAAGC TCCTCTGGAA AGGTGAAGGG  
 4450 4460 4470 4480 4490 4500  
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 GATTAGAACA TGGAAAAGTT TAGTAAAAACA CCATATGTAT GTTTCAGGGA AAGCTAGGGG  
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CTCTGCTATA AGAAAGGCGT TATTAGGACA TATAGTTAGC CCTAGGTGTG AATATCAAGC  
4930 4940 4950 4960 4970 4980  
AGGACATAAC AAGGTAGGAT CTCTACAATA CTGGGCACTA GCAGCATTA TAACACCAAA  
4990 5000 5010 5020 5030 5040  
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5050 5060 5070 5080 5090 5100  
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5170 5180 5190 5200 5210 5220  
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5230 5240 5250 5260 5270 5280  
CAACAACCTG TGTATTATCCA TTTCAGAATT GGGTGTGAC ATAGCAGAAT AGGCGTTACT  
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5350 5360 5370 5380 5390 5400  
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7570 7580 7590 7600 7610 7620  
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7630 7640 7650 7660 7670 7680  
CAAGCTTAAT ACATTCCTTA ATTGAAGAAT CGCAAAACCA GCAAGAAAAG AATGAACAAG

7690 7700 7710 7720 7730 7740  
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7930 7940 7950 7960 7970 7980  
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7990 8000 8010 8020 8030 8040  
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8350 8360 8370 8380 8390 8400  
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8410 8420 8430 8440 8450 8460  
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8470 8480 8490 8500 8510 8520  
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8590 8600 8610 8620 8630 8640  
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8650 8660 8670 8680 8690 8700

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11326

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